cross connect

PRODUCTS

CROSS CONNECT PRODUCTS

GIGABAND™ CATEGORY 6 PATCH PANELS NEW

400 MHz system supports data rates up to 4.8 Gb/s

GigaBand Category 6 patch panels provide unbeatable Category 6 performance. With positive PowerSum ACR up to 400 MHz, Category 6 patch panels exceed the latest proposed Category 6 specifications covering hardware, link and channel performance. The GigaBand line of panels is designed to run on all existing protocols, in addition to emerging protocols such as Gigabit Ethernet and 622 Mbps ATM. These patch panels also offer backward compatible performance, ensuring that they are suitable for use in existing as well as new system installations. The GigaBand line includes both Category 6 AlphaSnap and Universal patch panels.

Category 6 AlphaSnap™ Patch Panel

The HellermannTyton Category 6 AlphaSnap line of patch panels is the ultimate in patch panel technology. The panels are equipped with individual, fully modular printed circuit boards (PCBs). Rather than replace the entire panel, each port can be individually removed and replaced if damaged during installation. The AlphaSnap panel is equipped with a rear cable manager. Constructed from extruded aluminum and toughened plastic, this rear cable management bar easily snaps in and out of the back of the patch panel without the need of tools. Individual cable tie mounts located along the length of the management bar slide into position, which ensure that cables are not twisted or pinched during installation. The AlphaSnap panel introduces a patented slide labeling system, providing the ultimate protection for panel identification. The panels are configured for both T568A and T568B wiring, eliminating the need for additional panels.

• All modules are individually removable and replaceable

• Panel features very sturdy construction with thick rolled-edge steel plates

• Each part is individually tested 3 times to ensure quality performance

• Unique, patented slide label system provides a flush front panel face

• Label ramp provides easy insertion of the patented slide label

• Pre-perforated label sheets are available with HellermannTyton TagPrint Pro software*

• Configured for 568A or 568B wiring on same panel

• Lightweight aluminum rear cable manager comes with the panel and provides for neat and organized installation

A rear cable manager is included with all AlphaSnap patch panels

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PP110C6G24	Category 6 – 1U 24 port 110 AlphaSnap Patch Panel w/Rear Cable Manager	1
PP110C6G48	Category 6 – 2U 48 port 110 AlphaSnap Patch Panel w/Rear Cable Manager	1
PP110C6G1	Category 6 Replacement Module – single	1

Category 6 Universal Patch Panels

HellermannTyton's Category 6 Universal patch panels are pre-configured in 12, 24 and 48 port versions to meet the needs of nearly all customer applications. The panels are offered with increments of 6 port modules – which can be replaced if damaged during installation. The Universal panels can be used for both T568A and T568B wiring configurations, thus eliminating the need for extra inventory. The panels have a very flush front face which provides for an attractive appearance. HellermannTyton offers a very simple, easy-to-install rear cable manager which is recommended for all Category 6 installations.

Optional Rear Cable Manager with Grip Ties

Category 6 Universal Patch Panel

• 6 port modules can be replaced easily if damaged during installation

• Front face provides an attractive, flush appearance

• Write-on labels provided for easy identification

• Self-adhesive labels available with HellermannTyton TagPrint Pro software*

• Configured for 568A or 568B wiring on same panel

• Optional rear cable manager provides for neat and organized installation

Vertical Universal Patch Panel

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PP110C612	Category 6 – 1U 12 port 110 Universal Patch Panel	1
PP110C612V	Category 6 –12 port 110 Vertical Universal Patch Panel with 89D Bracket	1
PP110C624	Category 6 – 1U 24 port 110 Universal Patch Panel	1
PP110C648	Category 6 – 2U 48 port 110 Universal Patch Panel	1
PP110C66	Category 6 Replacement Module – 6 pack	1
TRCM	Universal Rear Cable Manager	1

For Laser/Ink jet printing: see page 81 – TAGPPIT4-822

MEGABAND™ CATEGORY 5E PATCH PANELS

NEW

200 MHz system supports data rates up to 2.4 Gb/s

HellermannTyton MegaBand Category 5e patch panels offer the same features as the GigaBand panels; however, they have been developed to fully comply with the Category 5 enhanced performance standard. When used with recommended horizontal cables, these patch panels are key components in HellermannTyton's Category 5e system which has been tested up to 200MHz. HellermannTyton offers Category 5e patch panels in both the AlphaSnap and Universal styles.

Category 5e AlphaSnap™ Patch Panel

The HellermannTyton Category 5e AlphaSnap line of patch panels is the ultimate in patch panel technology. The panels are equipped with individual, fully modular printed circuit boards (PCBs). Rather than replace the entire panel, each port can be individually removed and replaced if damaged during installation. The AlphaSnap panel is equipped with a rear cable manager. Constructed from extruded aluminum and toughened plastic, this rear cable management bar easily snaps in and out of the back of the patch panel without the need of tools. Individual cable tie mounts located along the length of the management bar slide into position, which ensure that cables are not twisted or pinched during installation. The AlphaSnap panel introduces a patented slide labeling system, providing the ultimate protection for panel identification. The panels are configured for both T568A and T568B wiring, eliminating the need for additional panels.

- All modules are individually removable and replaceable
- Panel features very sturdy construction with thick rolled-edge steel plates
- Unique, patented slide label system provides a flush front panel face
- Label ramp provides easy insertion of the patented slide label
- Pre-perforated label sheets are available with HellermannTyton TagPrint Pro software*
- Configured for 568A or 568B wiring on same panel
- Lightweight aluminum rear cable manager comes with the panel and provides for neat and organized installation

A rear cable manager is included with all AlphaSnap patch panels

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PP110C5EA24	Category 5e – 1U 24 port 110 AlphaSnap Patch Panel w/Rear Cable Manager	1
PP110C5EA48	Category 5e – 2U 48 port 110 AlphaSnap Patch Panel w/Rear Cable Manager	1
PP110C5EA1	Category 5e Replacement module – single	1

For Laser/Ink jet printing: see page 81 – TAGPP11010

Category 5e Universal Patch Panels

HellermannTyton's Category 5e Universal patch panels are pre-configured in 12, 24 and 48 port versions to meet the needs of nearly all customer applications. The panels are offered with increments of 6 port modules – which can be replaced if damaged during installation. The Universal panels can be used for both T568A and T568B wiring configurations, thus eliminating the need for extra inventory. The panels have a very flush front face which provides for an attractive appearance. Hellermann-Tyton offers a very simple, easy-to-install rear cable manager which is recommended for all Category 5e installations.

Optional rear cable manager with Grip Ties

Vertical Universal Patch Panel

- 6 port modules can be replaced easily if damaged during installation
- Front face provides an attractive, flush appearance
- Write-on labels provided for easy identification
- Self-adhesive labels are available with HellermannTyton TagPrint Pro software*
- Configured for 568A or 568B wiring on same panel
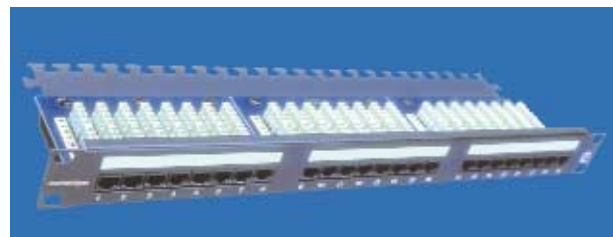- Optional rear cable manager provides for neat and organized installation

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PP110C5E12	Category 5e – 1U 12 port 110 Universal Patch Panel	1
PP110C5E12V	Category 5e – 12 port 110 vertical Universal Patch Panel w/89D Bracket	1
PP110C5E24	Category 5e – 1U 24 port 110 Universal Patch Panel	1
PP110C5E48	Category 5e – 2U 48 port 110 Universal Patch Panel	1
PP110C5E96	Category 5e – 4U 96 port 110 Universal Patch Panel	1
PP110C5E6	Category 5e Replacement Module – 6 pack	1
TRCM	Universal Rear Cable Manager	1

For Laser/Ink jet printing: see page 81 – TAGPPIT4-822

Category 5e Vertical Punch Patch Panel

This panel offers Category 5e performance in an economical, high density UTP format. It features a right-angled frame, with the PCBs mounted horizontally allowing for vertical punch downs. It is also provided with built-in cable management. The panel can be pulled out from the front of the relay rack and terminated from the front using Hellermann-Tyton's vertical panel outrigger.

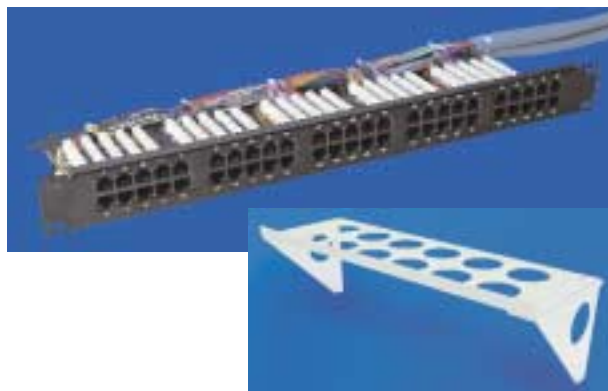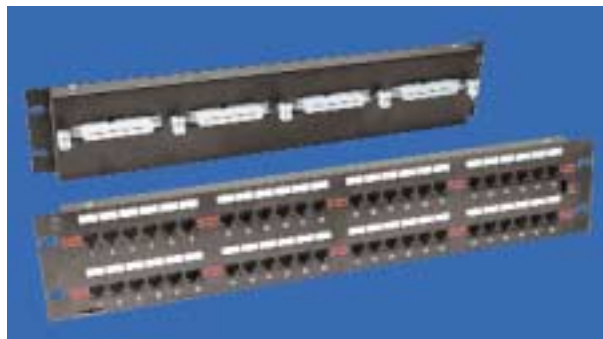| HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PP110C5E24P	Category 5e –1U 24 Port Vertical Punch Patch Panel	1
PPOR	Outrigger for Terminating	1

CROSS CONNECT PRODUCTS

100 BASE-T PATCH PANELS

NEW

The PowerSum telco patch panels convert feeder or equipment cables from 25 pair to 12 individual RJ45 ports with 2 pair presentation suitable for LAN applications including 100 Base-T. Panels utilize 50-pin/25 pair connector compatible with most 100 Base-TX and 100 Base-T Hubs. Active pins are 1, 2, 3 and 6. Available in 24 port and 48 port versions, these panels feature the slide label system, protecting port identification.

* See page 29 for 25 pair cable assemblies and Hydra cable assemblies

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PP100BT24	100 Base-T – 2U 24 Port Telco Patch Panel	1
PP100BT48	100 Base-T – 2U 48 Port Telco Patch Panel	1

CATEGORY 3 PATCH PANELS

The "voice" panel is the most economical way to offer 50 pair cables in an RJ45 presentation. It is available as a 1 unit, 50 port right-angled panel accepting 2 pairs per RJ45 circuit. The "voice" panel can be pulled out from the front of the rack and terminated from the front using HellermannTyton's vertical panel outrigger.

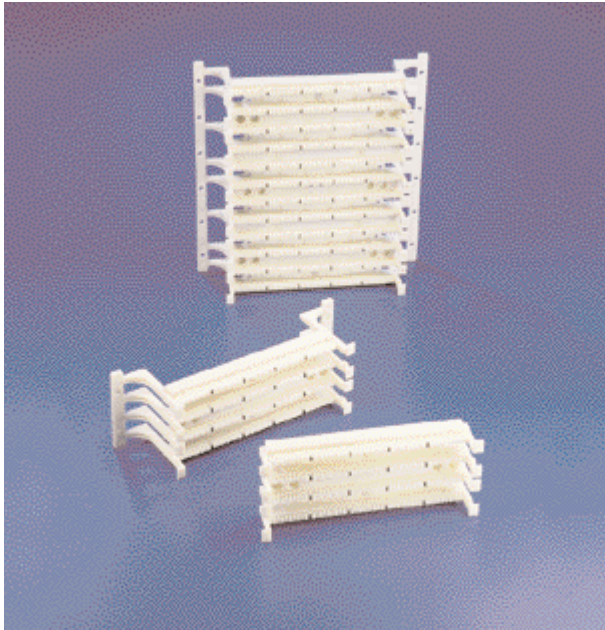| HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PP110C350	Category 3 – 1U Voice Panel – 50 pair cables/RJ45	1
PPOR	Outrigger for Terminating	1

MODULAR PATCH PANELS

The modular patch panel is designed to accept Hellermann-Tyton modular jacks and connectors, providing the ultimate in multimedia installations. It allows the design of a custom panel specifically suited to different applications including coax, voice, audio, video and fiber. Once the connectors are snapped into the panel, they are flush with the front of the plate. These modular panels can be mounted to any standard EIA 19" rack, cabinet or wall mount patch panel bracket. HellermannTyton pre-numbered modular patch panels are available in 12, 12 vertical, 16, 24, 32 and 48 port configurations.

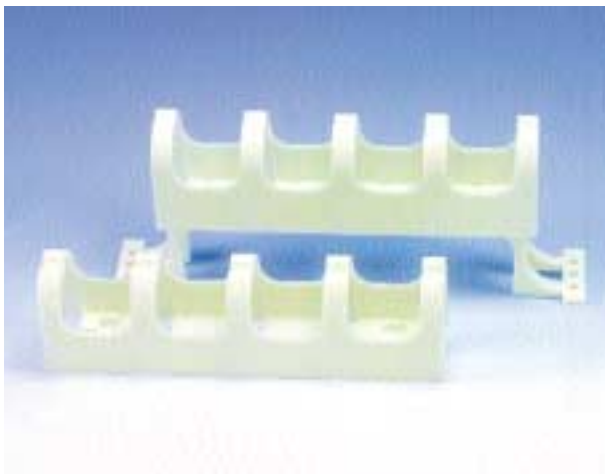| HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PPMOD12V	Blank Modular Patch Panel – 12 Port Vertical w/89D Bracket	1
PPMOD12	Blank Modular Patch Panel – 12 Port 1U	1
PPMOD16	Blank Modular Patch Panel – 16 Port 1U	1
P108-24-MOD	Blank Modular Patch Panel – 24 Port 2U	1
PPMOD32	Blank Modular Patch Panel – 32 Port 2U	1
P108-48-MOD	Blank Modular Patch Panel – 48 Port 3U	1

110 WIRING BLOCKS

HellermannTyton's 110 wiring blocks provide a dependable, long term system to support data and voice applications. These Category 5e 110 blocks offer an easy-to-install and economical solution for network managers. They are available in a number of different configurations for specific connectivity applications. To run cable behind the blocks or for wall mounting, the 100 pair and 300 pair blocks are available with standoff legs while the 100 pair blocks are offered in a low profile style without legs.

Accessories

For versatile cable management, HellermannTyton offers a cable trough with and without legs for use with the 110 wiring blocks. They provide total access to cable while organizing and maintaining cable bend radius.

For identification purposes, HellermannTyton provides termination hardware labels in various colors and a plastic ID holder to protect them.

110 Wiring Blocks and Accessories

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
T110WB100	100 Pair 110 Wiring Block Base	1
T110WBL100	100 Pair 110 Wiring Block Base with Legs	1
T110WBL300	300 Pair 110 Wiring Block Base with Legs	1
T1103	3 Pair Clip	10
T1104	4 Pair Clip	10
T1105	5 Pair Clip	10
T110CT	Cable Trough	1
T110CTL	Cable Trough with Legs	1
TAG110*	Termination Hardware Label	1,000
T110ID	Clear Plastic ID Holder	6

* Label colors include orange (OR), green (GR), purple (PL), gray (GY), blue (BL), brown (BR), yellow (YL), red (RD) and white (WT). See page 84 for more details.

* HellermannTyton's Tagprint Pro software can print labels using Tag 100 series. See page 74 for more details.
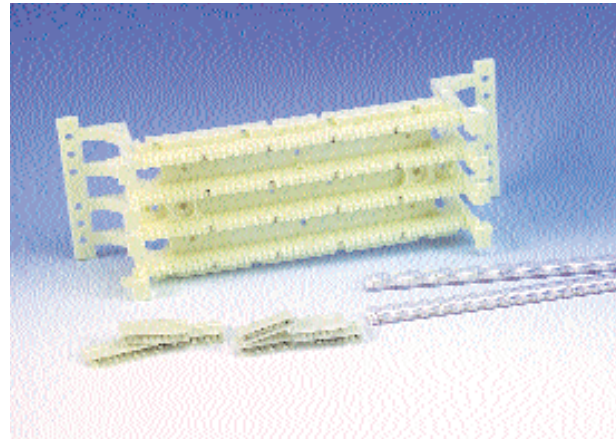
Field Installation Kits

To minimize labor and time, HellermannTyton offers field installation kits. These kits include 110 wiring blocks with standoff legs, 4 or 5 pair clips, and identification label holders with white labels.

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
T110KIT1004	100 Pair with 4 Pair Clips Installation Kit	1
T110KIT1005	100 Pair with 5 Pair Clips Installation Kit	1
T110KIT3004	300 Pair with 4 Pair Clips Installation Kit*	1
T110KIT3005	300 Pair with 5 Pair Clips Installation Kit	1

* One 5 pair clip is supplied in the 4 pair clip kits to complete the horizontal 25 pair index strip.

Rack Mountable 110 Blocks *NEW*

For applications that require fastening a 110 block to a 19" rack or cabinet, HellermannTyton provides the 100 pair and 300 pair blocks in a rack mountable version.

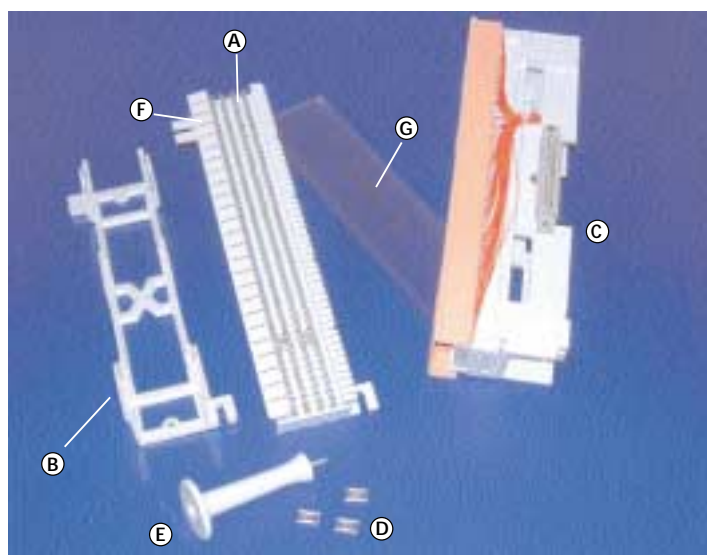| HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
T110RM100-4	Rack Mount 100 Pair 110 Block w/4 pair Connecting Block Clips	1
T110RM300-4	Rack Mount 300 Pair 110 Block w/4 pair Connecting Block Clips	1
T110RM100-5	Rack Mount 100 Pair 110 Block w/5 pair Connecting Block Clips	1
T110RM300-5	Rack Mount 300 Pair 110 Block w/5 pair Connecting Block Clips	1

CROSS CONNECT PRODUCTS

CATEGORY 5 66 BLOCKS *NEW*

Accepted throughout the industry, HellermannTyton's Category 5 rated 66 block is used in equipment rooms and wiring closets. These blocks are used for connecting voice and data cables to premise equipment. Offered in a 50 pair configuration, the 66 block is easy to install, reliable, and economical. HellermannTyton offers a standoff bracket as a method of mounting the 66 block. Molded from a flame-retardant thermoplastic, the 89D bracket is open on the top and bottom, enabling the insertion of cable before snapping on the block. The network interface block is designed for use at the demarcation point – it is a 66 block with one female, prewired 25 pair connector located on the right side and is included with an 89D mounting bracket, as well as a snap-on hinged cover colored orange to designate the network interface point.

66 Block Accessories

- The bridging clip is designed to make a common connec-tion on the 66 block adjacent quick clips. Formed from a tin plated "grade A" copper alloy, the clips require no tools for installing and removing.

- To keep the cable organized and routed properly, a wire distribution spool with a #10 wood screw is offered. The spool mounts easily on cross connect frames or backboards.

- Designation strips are available to identify the circuits on the 66 block. Easily snapped onto the side of the block, these white strips provide a platform for HellermannTyton labels, or can be written upon with a pen.

- Plastic covers are offered for the 66 connecting blocks to protect the wiring. They are molded of self-extinguishing clear plastic that snaps on the block easily.

HELLERMANN TYTON PART NO.	DESCRIPTION	DIMENSIONS (H) X (W) X (D)	PKG. QTY.
T66M1-50	66 Clip Connecting Block 50 pair (A)	10" x 2.56" x 1.2"	1
T89D	Standoff Bracket for 66 Blocks – White (B)	10" x 3.4" x 1.5"	1
T700A-66-B1-25	Network Interface Block 25 pair (C)	10" x 3.4" x 2.75"	1
TSA1	Bridging Clip (D)	.25" x .5"	25
T66WDS	Wire Distribution Spool with #10 wood screw – White (E)	1.68" x 1.68" x 2.95"	10
T66DS	Designation Strip – White (F)	10" x .5"	2
T66MC4	Plastic Cover for 66 Block (G)	10" x 2.56"	1

CROSS CONNECT PRODUCTS

PATCH CORDS *NEW*

Designed to maintain signal integrity, HellermannTyton offers a full line of high quality patch cords. These products are critical to the performance of the entire system, as inferior patch cords are the weak links in any compliant system. HellermannTyton offers one style of Category 6 patch cords and two styles of Category 5e patch cords. These patch cords have been thoroughly tested and guarantee the same high standard as the HellermannTyton connectivity hardware. HellermannTyton patch cords are available in 3, 5, 7, 10, 14 and 20 or 25 foot lengths in blue, yellow, green, red and gray.

Category 6 GigaBand™ Patch Cords

The HellermannTyton Category 6 patch cord features a clear snagless plug latch, which also protects the identification label. Not only does it prevent tangles when pulling in tight areas, but it also shields the ANSI/TIA/EIA-606-A labeling area. The plug is clear with a colored cable.

The patented Category 6 patch cord is a key component in the GigaBand system. The unique orientation of the pairs helps reduce and control near-end crosstalk (NEXT) and far-end crosstalk (FEXT) within the system.

Each Category 6 patch cord contains a strip of 16 self-adhesive clear labels for identification (voice, data, LAN and fax labels).

Customized patch cord labels are available with HellermannTyton TagPrint Pro software*.

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PC6X3	Category 6 – 3 foot Patch Cord	1
PC6X5	Category 6 – 5 foot Patch Cord	1
PC6X7	Category 6 – 7 foot Patch Cord	1
PC6X10	Category 6 – 10 foot Patch Cord	1
PC6X14	Category 6 – 14 foot Patch Cord	1
PC6X20	Category 6 – 20 foot Patch Cord	1

Replace "X" in the part number with the following letters for desired color: X = BLU (blue), YEL (yellow), GRN (green), RED (red), GRY (gray)
* Thermal Transfer TagPrint Pro Labels: See page 81 – TAG81T8-822, TAG70TI2-822

Note: Each Category 6 patch cord is tested 100% and includes test data showing compliance to all required TIA test parameters as stated in proposed TIA/EIA-568-B.2-1, draft 7.

CROSS CONNECT PRODUCTS

Category 5e Megaband™ Patch Cords

The Category 5e system patch cords complete HellermannTyton's MegaBand Category 5e system. When used with recommended horizontal cable and HellermannTyton's connectivity line, the ultimate performance is achieved, far surpassing the Category 5e standard.

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PC5EX3	Category 5e – 3 foot Patch Cord	1
PC5EX5	Category 5e – 5 foot Patch Cord	1
PC5EX7	Category 5e – 7 foot Patch Cord	1
PC5EX10	Category 5e – 10 foot Patch Cord	1
PC5EX14	Category 5e – 14 foot Patch Cord	1
PC5EX20	Category 5e – 20 foot Patch Cord	1

Replace "X" in the part number with the following letters for desired color:
X = BLU (blue), YEL (yellow), GRN (green), RED (red), GRY (gray)

Note: Each Category 5e system patch cord is tested 100% in compliance with TIA/EIA-568-B.2.

Category 5e Patch Cords

HellermannTyton's Category 5e patch cords are assembled with T568A/T568B four pair stranded cable and tested to 350 MHz. They feature a strain relief boot, preventing excessive bending while reducing stress on the cable. It also features a snag-free boot, eliminating tangling. The boot and the cable are both colored.

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
PCX3	Category 5e – 3 foot Patch Cord	1
PCX5	Category 5e – 5 foot Patch Cord	1
PCX7	Category 5e – 7 foot Patch Cord	1
PCX10	Category 5e – 10 foot Patch Cord	1
PCX14	Category 5e – 14 foot Patch Cord	1
PCX25	Category 5e – 25 foot Patch Cord	1

Replace "X" in the part number with the following letters for desired color:
X = BLU (blue), YEL (yellow), GRN (green), RED (red), GRY (gray)

CROSS CONNECT PRODUCTS

110 CATEGORY 5 PATCH CORDS

110 to 110 Patch Cord

Designed to be used between 110 termination blocks, HellermannTyton's factory terminated 110 – Category 5 patch cords provide reliable connections with high performance.

HELLERMANN TYTON PART NO.	DESCRIPTION	COLOR	PKG. QTY.
PC1103	Category 5, 3 foot – 4 pair 110 connector to 4 pair 110 connector patch cord	Gray	1
PC1107	Category 5, 7 foot – 4 pair 110 connector to 4 pair 110 connector patch cord	Gray	1
PC11010	Category 5, 10 foot – 4 pair 110 connector to 4 pair 110 connector patch cord	Gray	1
PC11014	Category 5, 14 foot – 4 pair 110 connector to 4 pair 110 connector patch cord	Gray	1

110 to RJ45 Patch Cord

HellermannTyton also offers a patch cord for patching network equipment to 110 connecting blocks. These Category 5 patch cords connect a 4 pair 110 connector to an 8 position modular jack. The patch cords are available wired as T568A or T568B.

HELLERMANN TYTON PART NO.	DESCRIPTION	COLOR	PKG. QTY.
PC110453A	Category 5, 3 foot – 4 pair 110 connector to RJ45 jack patch cord – T568A Wired	Gray	1
PC110457A	Category 5, 7 foot – 4 pair 110 connector to RJ45 jack patch cord – T568A Wired	Gray	1
PC1104510A	Category 5, 10 foot – 4 pair 110 connector to RJ45 jack patch cord – T568A Wired	Gray	1
PC1104514A	Category 5, 14 foot – 4 pair 110 connector to RJ45 jack patch cord – T568A Wired	Gray	1
PC110453B	Category 5, 3 foot – 4 pair 110 connector to RJ45 jack patch cord – T568B Wired	Gray	1
PC110457B	Category 5, 7 foot – 4 pair 110 connector to RJ45 jack patch cord – T568B Wired	Gray	1
PC1104510B	Category 5, 10 foot – 4 pair 110 connector to RJ45 jack patch cord – T568B Wired	Gray	1
PC1104514B	Category 5, 14 foot – 4 pair 110 connector to RJ45 jack patch cord – T568B Wired	Gray	1

See Fiber Optic Product section for Fiber Optic Cable Assemblies.

TELCO CABLE ASSEMBLIES

The PowerSum Category 5 telco cable assembly is a 25 pair stranded cable with a 25 pair male connector on either end. Connector orientations are straight or angled at 120º to allow for greater flexibility. Manufactured with quality components, every assembly is individually tested. Telco cable assemblies are available in 5, 10 and 15 foot lengths.

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
TCAC5S5	Telco Cable Assembly – Category 5 Straight 25 Pair – 5 foot	1
TCAC5S10	Telco Cable Assembly – Category 5 Straight 25 Pair – 10 foot	1
TCAC5S15	Telco Cable Assembly – Category 5 Straight 25 Pair – 15 foot	1
TCAC5A5	Telco Cable Assembly – Category 5 120º Angled 25 Pair – 5 foot	1
TCAC5A10	Telco Cable Assembly – Category 5 120º Angled 25 Pair – 10 foot	1
TCAC5A15	Telco Cable Assembly – Category 5 120º Angled 25 Pair – 15 foot	1

HYDRA CABLE ASSEMBLIES

HellermannTyton also offers PowerSum Category 5 telco to RJ45 hydra cable assemblies. They exist with 12 RJ45 leads to each Category 5 – 25 pair male connector. The 25 pair connectors are offered either straight or 180° exit, which fit most 100 Base-T Hubs. Manufactured with quality components, every assembly is individually tested. The hydra cable assemblies have a flexible construction and are available in 5, 10, and 15 foot lengths.

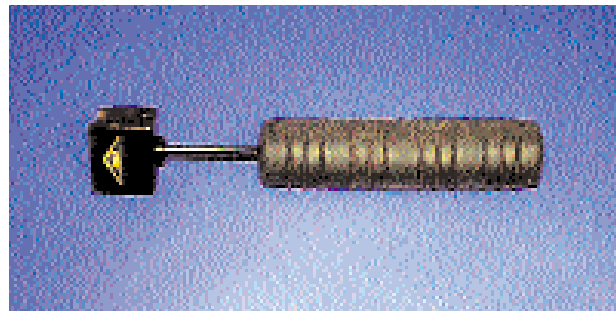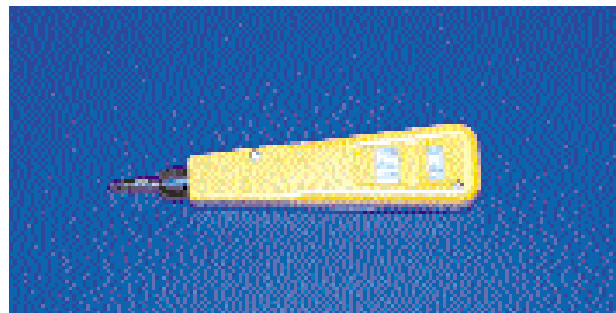| HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
HCAC5S5	Hydra Cable Assembly – Category 5 Straight 25 Pair – 5 foot	1
HCAC5S10	Hydra Cable Assembly – Category 5 Straight 25 Pair – 10 foot	1
HCAC5S15	Hydra Cable Assembly – Category 5 Straight 25 Pair – 15 foot	1
HCAC5A5	Hydra Cable Assembly – Category 5 180º Angled 25 Pair – 5 foot	1
HCAC5A10	Hydra Cable Assembly – Category 5 180º Angled 25 Pair – 10 foot	1
HCAC5A15	Hydra Cable Assembly – Category 5 180º Angled 25 Pair – 15 foot	1

TOOLS

HellermannTyton offers two punch down tools to terminate wire for 110 wiring blocks, 66 blocks, patch panels or modular jacks.

IT110

The IT110 is spring loaded and features an impact pressure adjustment control, allowing for modification of impact settings. Replacement blades are available and can be stored in the handle.

IT1105

The IT1105 tool is a combination impact tool used to seat and cut UTP cable on a 110 wiring block or to seat 3, 4 and 5 pair 110 connecting blocks. This tool is equipped with an easy to hold ribbed rubber handle that promotes a non-slip, user friendly grip.

HELLERMANN TYTON PART NO.	DESCRIPTION	PKG. QTY.
IT110	Impact Tool with 110 Blade	1
IT110B	Replacement 110 Blade	1
IT1105	5 Pair Impact Tool	1
IT1105B	5 Pair Impact Tool Replacement Head	1
IT66B	66 Block Blade	1

Punch Down Installation Palm Tool

To expedite jack installation, HellermannTyton provides a useful tool. The palm tool fits ergonomically in the hand to ease the punch down process of both flush and angled modular jacks, as well as the individual ports in the GigaBand and AlphaSnap patch panels.

HELLERMANN TYTON PART NO.	DESCRIPTION	COLOR	PKG. QTY.
PIPT	Punch Down Installation Palm Tool	Blue	1